

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/GB 03/04245

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A62B18/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A62B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GB 297 854 A (JOHN AMBROSE SADD) 1 December 1922 (1922-12-01) page 1, lines 42-48 – page 4, lines 10-44 -----	1-5,8-12
Y	US 4 799 477 A (LEWIS RALPH H) 24 January 1989 (1989-01-24) the whole document -----	1,8
Y	US 3 680 555 A (WARNCKE ERNST) 1 August 1972 (1972-08-01) figure 1 -----	1-4,8-12
Y	US 3 330 273 A (RAY BENNETT V) 11 July 1967 (1967-07-11) column 6, line 10-; figure 12 ----- -/-	8-12

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the International filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "D" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the International filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the International search

22 January 2004

Date of mailing of the International search report

30/01/2004

Name and mailing address of the ISA

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PCT/GB 03/04245

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 02/11816 A (RICHARDSON GRANT STUART ; SECR DEFENCE (GB); MATHERS WILLIAM GEORGE (G) 14 February 2002 (2002-02-14) cited in the application	2-5
A	page 4., line 29, paragraph 3 – page 5, line 22	1,6,8
A	DE 11 81 554 B (AUERGESELLSCHAFT GES MIT BESCH) 12 November 1964 (1964-11-12) the whole document	6

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### Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: 13 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
**Claim 13 only contains references to the description of certain drawings.**
  
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remainder of Protest

The additional search fees were accompanied by the applicant's protest.  
 No protest accompanied the payment of additional search fees.

International Application No. PCT/GB 03 04245

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

**INTERNATIONAL SEARCH REPORT**

 International Application No  
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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
GB 297854	A	01-12-1922	NONE			
US 4799477	A	24-01-1989	NONE			
US 3680555	A	01-08-1972	DE CH CS FI FR GB HU IL IT NL SE	1914224 A1 516314 A 178811 B2 52429 B 2039795 A6 1259232 A 168193 B 34098 A 951905 B 7003991 A 359030 B		24-09-1970 15-12-1971 31-10-1977 31-05-1977 15-01-1971 05-01-1972 28-03-1976 10-02-1975 10-07-1973 22-09-1970 20-08-1973
US 3330273	A	11-07-1967	NONE			
WO 0211816	A	14-02-2002	AU CA EP WO GB US	7651101 A 2417734 A1 1307265 A1 0211816 A1 2386075 A 2003168060 A1		18-02-2002 14-02-2002 07-05-2003 14-02-2002 10-09-2003 11-09-2003
DE 1181554	B	12-11-1964	NONE			